## WEB SCRAPINO WITH KNIME

Introduction -

Web scraping is the most important thing in Data science. Our objective in this article is to make a simple workflow in knime scraps the data from the website. Here we have to take a live website of Grona cases and other information for India, you can find the website here.

## × path:-

\*So our next step is to parse the XML file to
extract the table data from it. X-path node helps you out
to parse the XML file, as you can see below the
Configuration of Xpath We have to specify the X path

# using the Add path button you can add a displays how many

patrs you have.

Protting and ungroup:

Man our next step is to transform the table into a data file who use prioring mode. And After this, who have to anyroup the Column using argument node.

Webpage Retirever Node:

\* Web page Retriever node provides the facility to

Connect With the viebsite and generate the XML file, so as you

Can see in the below dialog box of wensetriever node you have to

Just specify your respective URL in the Connection setting in our

Case We have to specify this web site in URL

\* you can find a more detailed description of Webpage Retriever Node from here.

CSV Writer:

our final step is to Write a excel (or) Or whiten
file to this fatched data and knime provides
facilities to do this by simply using (sy writer nodes.

So by executing this full Morkflow at the end on the Cav or excel you get the foth data a data - white billioning list.

## CORRELATION

Correlation Analysis

Correlation 9s a statistical technicolue that can be used to determine It. how strongly points of carriables are are Forted. Correlation & only appropriate for Quantificable data En Whitch numbers are meaningful, such as continuous Or ordinal data. It connot be used for purely categorical data for which we have to use configency table analysis. It one Variable devictes from its mean does the other Variable doublide from its mean in other the same or apposite direction. This can be assembled by measuring Coloniance, halleter, the not standardiesed. We can measure the constance of the variables which are measured on moters, of use convert the same values to Centemetres, whe get the same relationship but which a Completely different Contacionce Value. In order to Overcome this, standardised Coversance is used which is known as peassons correlation coefficient cos "a" ) int xarges from -10 to +1.0. The closer or is to +1 or -1, the more Closely the fullo Variables are related. If The Close to 0, there is no relationship. If y is (+) then as one variable increases the other also increases. If y is (-) then as one increases, the other decreases, the other decreases (sometimes reberred to as an "increases correlation)

The Correlation Coefficient (r) Should not be confused with R2 (cofficient of determination) or R Comuntiple Correlation Coefficient as used in segression).

The main assumption in this analysis is that the data have a normal distrubution and are linear. This analysis will not work well with arrivationear relationships.

Let's run the correlation analysis to Envestigate whether the Correlation coefficient between the Covert and overt and overt antisocal behaviour (convert and overt) is significantly different from o.

From now on, we will use the alpha level of or because it is most commonly used.